

GORENSHTEYN, M.D.

Operation of cables with 10 kv. ratings at 6 kv. potentials. Prom.  
energ. 19 no.7:57 J1 '64. (MIRA 18:1)

GARMENHTLYR, M.B., Tech. (Novosibirsk)

Helping the frequency of also and determination of the optimum  
value for long-range electrolocation of the U.S.R. Fishery Institute  
no. 8481-84 by 165. (MIRA 1986)

GORNSHTEYN, M.D., inzh. (Novosibirsk)

Assurance of safety in the use of electric household appliances  
and apparatus. Elektrichestvo no.9:86-87 S '65.

(MIRA 18:10)

ГОРЕНШТЕЙН, М.М., кандидат технических наук; ПЕТРУЛЕВИЧ, Н.И.,  
инженер; ТОМАСHEVSKAYA, Г.В.

Thick sheet rolling with reduced tolerances. Stal' 15 no.8:753-  
755 Ag'55. (MLRA 8:11)

1. Zhdanovskiy metallurgicheskiy institut i zavod imeni Il'icha  
(Rolling (Metal work)) (Sheet steel)

GORENSHTEYN, M.M.

SOV/137-58-8-16826

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 8, p 85 (USSR)

AUTHORS: Starchenko, D.I., Kapustina, M.I., Gorenshteyn, M.M.,  
Danilov, V.D., Savchenko, A.M., Yefimenko, S.P.

TITLE: Intensifying Breakdown Operations in Rolling Heavy Sheet (Intensifikatsiya rezhimov obzhatiya pri prokatke tolstykh listov)

PERIODICAL: Sb. nauchn. tr. Zhdanovsk. metallurg. in-t, 1957, Nr 4,  
pp 126-142

ABSTRACT: Experimental rolling (R) and study of existing breakdown schedules (B) for thick sheets of the major sizes, types, and grades of steel on the Nr-1 mill of the im. Il'ich plant make it possible to define the unused power and available energy of the mill during the initial period of R of 8.8x2095 mm and 10.8x2085 mm Nr-3 steel sheets, and also to determine unused biting capacity of the rolls. These factors are used to develop and recommend new, more intensive B schedules, envisaging a considerable increase in B during the first passes, with the present deformation ratios being retained essentially at the end of B. The B of sheets of different types and dimensions was performed in 21-23 passes as against 27-31 passes under the

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SOV/137-58-8-16826

Intensifying Breakdown Operations in Rolling Heavy Sheet

old B schedules, making it possible to reduce the R time for a single ingot and thus to raise the productivity of a three-high Lauth mill by 5-6% on the average.

A.N.

1. Steel---Processing
2. Sheets
3. Rolling mills---Performance

Card 2/2

SOV/137-68-9-18966

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 9, p 116 (USSR)

AUTHORS: ~~Gorenshteyn, M.M.~~, Gol'dshteyn, L.G.

TITLE: A Nucleonic Method of Investigating Pick-up of Metal on the Rolls of a Blooming Mill (Metod issledovaniya nalipaniya metalla na valki blyuminga s primeneniym radioaktivnykh izotopov)

PERIODICAL: Sb. nauchn. tr. Zhdanovsk. metallurg. in-t, 1957, Nr 4, pp 153-156

ABSTRACT: The pickup of metal by the rolls of a blooming mill in the process of rolling is investigated by means of isotopes at the blooming mill of the Stalino Metallurgical Plant. Radioactive  $P^{32}$  was introduced into the ladle with the molten metal. Ingots made from this metal were rolled on the blooming mill. After rolling, the rolls were removed and turned on lathes. The chip was collected and its radioactivity recorded. The difference between the radioactivity of the chip samples and the background testified to pick-up of metal from the ingot by the blooming-mill rolls. The work performed does not yet permit the drawing of any quantitative conclusions. A.F.

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1. Rolling mills--Performance 2. Metals--Deposits 3. Metals--Determination  
4. Radioisotopes--Applications

AUTHOR: GORENSHTEYN, M.M., cand.tech.sc. PA - 2418  
 TITLE: Investigation of Roll's Gripping Capacity. (Issledovaniye  
zakhvatyvayushchey sposobnosti valkov tolstolistovyykh stanov,  
Russian) 5  
 PERIODICAL: Stal', 1947, Vol 17, Nr 3, pp 239-242 (U.S.S.R.) Reviewed: 6 / 1957  
Received: 5 / 1957  
 ABSTRACT: On the occasion of the rolling of plate on a Lauth three-high plate mill the gripping power component of the rolls is the basic limiting factor determining the operation of blooming in the case of the first passes. Investigations were carried out on three different three-high plate mills. With regard to these investigations, in the case of the first 7 - 10 passes, increase of the blooming up to the boundary value, taking account of the material of the rolls and of the properties of the steel grade to be rolled, is recommended in accordance with the conditions for gripping. In accordance with the experiment of using one steel roll together with two cast-iron rolls, blooming can be increased at the expense of better gripping properties of steel rolls. The quality of the plate is satisfactory if the last pass is carried out between the two cast-iron rolls. In order to warrant good gripping, the gripping angle must not be greater than 15° in the case of the rolling of carbon steels between the cast-iron rolls. The gripping angle can be widened to 17°

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Investigation of Roll's Gripping Capacity.

PA - 2418

in the case of rolling between the steel- and the cast-iron rolls. In the case of rolling low alloy steels (with Ni, Cr, Cu) the friction angle changes remarkably on the occasion of the first passes, but it becomes constant and equal to the friction angle in the case of the rolling of carbon steel after removal of the scale. (4 Illustrations and 1 citation from Slav publications).

ASSOCIATION: Metallurgical Institute Zhdanov (Zhdanovskiy metallurgicheskiy institut)

PRESENTED BY:

SUBMITTED:

AVAILABLE: Library of Congress

Card 2/2

PHASE I BOOK EXPLOITATION SOV/3226

Mezhdunarodnaya nauchno-tekhnicheskaya konferentsiya na temu: "Sovremennyye dostizheniya prokatochnogo proizvodstva."

Trudy... (Transactions of the Intercollegiate Scientific and Technical Conference on Recent Achievements in the Rolling Industry) Leningrad, 1958. 251 p. 1,000 copies printed.

Sponsoring Agencies: Leningradskiy politekhnicheskiy institut im. M.I. Kalinina, Nauchno-tekhnicheskoye obshchestvo mashinostroyeniya, Leningradskoye otdeleniye, and Nauchno-tekhnicheskoye obshchestvo metallurgov, Leningradskoye otdeleniye.

Resp. Ed.: V.S. Sedukov, Doctor of Technical Sciences, Professor; Ed.: M.M. Pavlov.

RUSPCS: These proceedings of the conference are intended for specialists in the rolling industry.

COVERAGE: The articles of this collection cover various theoretical and practical problems of rolling, such as: pressure, spread, efficiency of rolls, determination of deformation, forces required, pass design, optimum conditions for rolling, experiences of various plants, modernization of equipment, aluminum-clad steel, and rolling of nonferrous metals. No personalities are mentioned. References appear after each article.

Lavrukhin, O.S., and V.D. Buren. (Leningrad) Some Problems of Production and Equipment in Longitudinal Periodic Dis Rolling

Gulyaev, M.A. (Sibirskiy metallurgicheskiy institut (Siberian Metallurgical Institute), Stalinsk) Optimum Conditions of Deformation in Rolling 103

Grechko, V.P. (Institut chernoy metallurgii AN USSR (Institute of Ferrous Metallurgy, AN USSR)) Quality of Rolling With Great Drafts 109

Bakula, S.P. (Zavod "Krasnyy Otkryabr" (Plant "Krasnyy Otkryabr"), Stalingrad) New Type of Rolled Steel for the Tractor Industry 122

Boyarshinov, M.I. (Magnitogorskiy sornometallurgicheskiy institut im. O.I. Kozova (Magnitogorsk Mining and Metallurgy Institute im. O.I. Kozov)) New Technique in the Metallurgical Method of Producing Copper-Clad Steel Wire Rod 131

Yegorov, M.M. (Zhdanovskiy metallurgicheskiy institut (Zhdanov Metallurgical Institute)) Intensifying Regimes of Drate in Rolling According to Friction Conditions 136

Khelebkov, V.P. (Zaved "Azovstal'" (Plant "Azovstal'"), Zhdanov) Mastering Rolling of Rails at the "Azovstal'" Plant 141

Ilyukovich, B.M. (Chusovskoy metallurgicheskiy zavod (Chusovoy Metallurgical Plant)) Rolling and Roll Pass Design of Light T-shapes for Framework of Industrial Buildings 145

Baram, A.M., A.M. Makhlomov, and M.D. Kozin. (Kirovskiy zavod (Kirov Plant), Leningrad) Rolling Spring Leaf and Spring Steel at Kirov Plant 151

Yatsura, V.K. (Zakavkazskiy metallurgicheskiy zavod im. I.V. Stalin (Transcaucasian Metallurgical Plant im. I.V. Stalin)) Application of Repeaters in Rolling Steel Angles 155

Korshunov, Ye.A. (Ural'skiy politekhnicheskiy institut (Ural's Polytechnical Institute)) Effect of a Manipulator on Blooming Productivity 159

Grevtsov, M.M. (Zaved "Azovstal'" (Plant "Azovstal'"), Zhdanov) Rolling Double-length Blooms in the 650 Blooming Mill at the Large Section Rolling Shop of the "Azovstal'" Plant 162

Milenok, P.T. (Leningradskiy zavod po obrabotke tsvetnykh metallov (Leningrad Plant for Treatment of Nonferrous Metals)) Modernizing the Equipment of Roll-rolling Shops 163

Chernyak, S.N. (Leningradskiy zavod po obrabotke tsvetnykh metallov (Leningrad Plant for Treatment of Nonferrous Metals)) Improving Production of Aluminum-clad Iron 176

Qurevich, D.Ya. (Leningradskiy listoprekatny zavod (Leningrad Sheet-rolling Mill)) Combined Method of Producing Roofing Sheets 182

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 11, p 75 (USSR) SOV/137-58-11-22369

AUTHORS: Kirillov, B. S., Gorenshteyn, M. M., Tkachenko, V. K., Goltvenko, A. I.

TITLE: An Investigation of Dynamic Processes in the Live Train of an 1170 Blooming Mill Under More Severe Conditions of Rolling (Issledovaniye dinamicheskikh protsessov v rabochey linii blyuminga 1170 pri uzhestochennom rezhime prokatki)

PERIODICAL: Izv. vyssh. uchebn. zavedeniy. Chernaya metallurgiya, 1958, Nr 1, pp 128-137

ABSTRACT: An investigation is made of dynamic processes in the live train of a blooming mill (B) by comparing regimes for rolling 6.9-t steel ingots in 13 and 11 passes. The results serve as reference material for dynamic stress analyses relating the more intensive B rolling operations. The analytical and experimental investigations include derivation of the magnitudes of the static, motive, and dynamic moments at different phases of the passage of the metal (Me) through the rolls. The static and motive moments in the period of Me contact display a linear change and may be deemed constant when a steady-state process is in progress. The dynamic moments are investigated

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SOV/137-58-11-22369

An Investigation of Dynamic Processes in the Live Train (cont.)

by means of the equation for the moment of the elastic forces of the spindle induced by the inertia of the flywheel masses in the live train of the mill during the contact phase and the steady rolling process. The effect of the law governing the increase in and the value of the moment of resistance during contact upon change in the dynamics of the process is demonstrated. Dynamic phenomena are virtually equal upon rolling in 13 and in 11 passes. The fluctuations in the torque moments induced by the elasticity of the system do not exceed 3% of the static load.

V. I.

Card 2/2

SOV/137-59-3-6739

Translation from. Referativnyy zhurnal. Metallurgiya, 1959, Nr 3, p 257 (USSR)

AUTHOR Gorenshteyn, M. M.

TITLE: Intensification of Reduction During Rolling in Accordance With Conditions of Friction (Intensifikatsiya rezhima obzhatiy pri prokatke po usloviyam treniya)

PERIODICAL Tr. Mezhvuz. nauchno-tekhn. konferentsii na temu: "Sovrem. dostizh. prokatn. proiz-va". Leningrad, 1958, pp 136-140

ABSTRACT: Investigations performed on the roughing roll stand (type 800) of the large sectional 650-type mill at the "Azovstal'" plant as well as under laboratory conditions (rolling of Pb-specimens at a very slow rate through the steel rolls of a "125" mill) demonstrated that the ratio of the coefficients of gripping friction ( $F$ ) ( $f_g$ ) to self-locking  $F$  ( $f_b$ ) may vary from  $f_g/f_b=1$  to  $f_g/f_b=2.3$  depending on a number of factors, such as the external conditions of  $F$ , the presence of a force employed in pushing the billet ( $B$ ) into the rolls, the condition of the leading end of the  $B$ , the width of the  $B$ , and the shape of the bottom surface of the roll passes, squeezing of the  $B$  by the walls of the latter, any discrepancy in the angular velocity of the rolls and the

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Intensification of Reduction During Rolling (cont.)

SOV/137-59-3-6739

rate of feed of the B, conditions of reduction after the rolling process had reached a steady state, as well as other factors. The validity and adequate accuracy of the relationship  $\alpha_f \approx 2 \beta_f$  was confirmed. It is noted that the F angle during gripping may differ very considerably from the F angles observed in a steady-state process of rolling and self-locking, a circumstance which is responsible for the occurrence of skidding of the B after it has entered the rolls. In order to intensify the conditions of reduction in accordance with the conditions of F, it is essential that the effective coefficients of gripping and self-locking be found in each specific instance for each given roll stand and that these values be employed in determining the maximum reductions permissible.

V. D.

Card 2/2

GORENSHTEYN, M.M., kand.tekhn.nauk; KIRILLOV, B.S., kand.tekhn.nauk;  
TKACHENKO, V.K., inzh.; GOLTVENKO, A.I., inzh.; POGORZHEL'SKIY,  
V.I., inzh.; BARANETS, P.D., inzh.; YASHCHENKO, Z.A., inzh.;  
FIL'CHAKOVA, V.A., inzh.

Establishing the most satisfactory conditions for rolling on  
blooming mills with increased load on the main driving motor.  
Izv. vys. ucheb. zav.; chern. met. no.3:91-101 Mr '58.

(MIRA 11:5)

1.Zhdanovskiy metallurgicheskiy institut i zavod "Azovstal'".  
(Rolling mills--Electric driving)

AUTHORS: SOV/130-58-8-10/18  
Gorenshteyn, M.M., and Kologrivov, N.P., Candidates of  
Technical Sciences, Pogorzhel'skiy, V.I., Gudovshchikov,  
K.S., Shapiro, Yu.A., Engineers

TITLE: An Effective Method of Rolling Roll Surfaces  
(Effektivnyy sposob nakatki valkov)

PERIODICAL: Metallurg, 1958, Nr 8, pp 25 - 27 (USSR)

ABSTRACT: The roughening of roll surfaces is especially advantageous in the first few days of operation but, the author points out, not all methods of roughening are equally effective. The 1150 blooming mill at the "Azovstal'" Works has forged 55 Kh steel rolls which, since 1949, have had 20-30 mm long notches cut on their surface with pneumatic chisels, a zig-zag line also being cut in the first pass (Figure 1). This proved effective only for the first 2-3 shifts. Metallisation was tried in various forms, including bead welding, but these were found unsuitable because of crack extensions and excessive vibration. After a study of methods used at the imeni Kirov Works and the Kuznetskiy metallurgicheskiy kombinat (Kuznetsk Metallurgical Kombinat), the "Avostal" Works adopted a special system. In this, a toothed cutter up to

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An Effective Method of Rolling Roll Surfaces

SOV/130-58-8-10/18

100 mm wide with a curvature to fit the roll surface is used to form rings which are then cut up by a 6KhVS-steel roller, 50-80 mm wide (Figure 3), to give a surface covered in pyramids 2.5 mm high and 5 x 5 at the base. A complete blooming-mill roll is processed by one man in three hours. Lead prints taken daily have shown that the pyramids wear slowly and crazing is delayed and orientated along pyramidal bases. The method has been adopted for all reducing stands. There are 3 figures.

ASSOCIATION: Zhdanovskiy metallurgicheskiy institut (Zhdanov Metallurgical Institute) and Zavod "Azovstal'" ("Azovstal'" Works)

Card 2/2

1. Rolling mills--Performance 2. Rolling mills--Equipment

STARCHENKO, D.I., doktor tekhn.nauk, prof.; KAPUSTINA, M.I., kand.tekhn.nauk,  
dotsent; ~~GORENSHTEYN, M.M.~~, kand.tekhn.nauk, dotsent; DANILOV, V.D.,  
inzh.; SAVCHENKO, A.M., inzh.; YEFIMENKO, S.P., inzh.

Investigating deformation conditions in plate rolling. Izv. vys.  
ucheb. zav.; chern.met. no.5:121-129 My '58. (MIRA 11:7)

1. Zhdanovskiy metallurgicheskiy institut.  
(Deformations (Mechanics)) (Rolling (Metalwork))

AUTHORS: Gorenshteyn, M.M., Candidate of Technical Sciences, Docent,  
and Yashchenko, Z.A., Engineer SOV/133-58-8-10/30

TITLE: Investigation of the conditions of Rolling Rail-steel  
Ingots of Increased Weight in the Blooming Mill 1170  
(Issledovaniye rezhima prokatki utyazhelennykh rel'sovykh  
slitkov na bluminge 1170)

PERIODICAL: Stal', 1958, Nr 8, pp 711 - 715 + 1 plate (USSR)

ABSTRACT: An investigation was carried out for the purpose of  
establishing rational rolling regimes for 9.76-ton rail-  
steel ingots, so as to secure a higher output without  
overheating of the motor under normal operating conditions.  
The investigation was carried out in two stages; in the  
first stage, the initially developed scheme of reduction,  
as enumerated in Table 1, was used. In the second stage,  
an improved regime was used which has since been adopted  
for normal production (Table 2). During the first stage  
of the experiments, the following parameters were recorded  
oscillographically (film speed 10-50 mm/sec): current  
intensity, voltage, power and rpm of the main (7 000 hp)  
motor, torque variations of the lower spindle; the  
50 cps current was used for time marking. During the  
second stage of the investigations, the recordings were  
made on a 9-loop Siemens oscillograph with a film speed  
of 22 mm/sec and, in addition to the previously enumerated

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Investigation of the Conditions of Rolling of Rail-steel Ingots of  
Increased Weight in the Blooming Mill 1170

SOV/133-58-8-10/30

parameters, the changes in the rpm and the current consumption of the motor of the pressure installation were recorded; furthermore, the degrees of reduction in the metal temperature after the first and before the last pass were measured. It was found that the developed regimes for rolling 9.76-ton ingots of 270x280 mm permit maintaining a high productivity under normal conditions of operation of the main motor of about 7 000 hp, without causing overheating. The basic condition of successfully reducing the rms current intensity to 92-94% of the nominal value is strict standardisation of the rolling speed, limiting the rpm during the first nine passes. Relations have been established which govern the character and the magnitude of the influence of speed control on reducing the rms current intensity; the changes of the rolling-speed regimes under conditions of manual control of the main motor; the standardisation of the rpm during gripping, during steady-state rolling and ejection. All these are important not only for the concrete case of rolling very heavy ingots but also when evolving new and more intensive reduction regimes for

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SOV/133-58-8-10/30  
Investigation of the Conditions of Rolling Rail-steel Ingots of  
Increased Weight in the Blooming Mill 1170

ingots of current weights. By taking into consideration the  
relations established in the experiments, it is possible to  
avoid overheating of the main motor.  
There are 4 figures and 2 tables.

ASSOCIATIONS: Zhdanovskiy metallurgicheskiy institut (Zhdanov  
Metallurgical Institute) and Zavod "Azovstal'"  
("Azovstal'" Works)

Card 3/3

1. Steel--Processing
2. Rolling mills--Operation
3. Rolling mills--Equipment

GORENSHTEYN, M.M., dots., kand.tekhn.nauk

Investigating temperature conditions on friction surfaces during hot rolling. Izv.vys.ucheb.zav.; chern.met. no.11:87-94 N '58.

(MIRA 12:1)

1. Zhdanovskiy metallurgicheskiy institut.  
(Rolling (Metalwork)) (Surfaces (Technology))  
(Heat--Transmission)

GOYENSHTEYN, M.M., kand.tekhn.nauk, dots.; YASHCHENKO, Z.A., inzh.

Investigating conditions of rolling heavy rail ingots on a 1170  
blooming mill [with summary in English]. Stal' 18 no.8:711-715  
Ag '58. (MIRA 11:8)

1.Zhdanovskiy metallurgicheskii institut i zavod "Azovstal'."  
(Rolling (Metalwork)) (Steel ingots)

GORENSETSEYN, Mikhail Moiseyevich; VORONTSOV, N.M., otv.red.; BELINA,  
R.A., red.isd-va; ANDREYEV, S.P., tekhn.red.

[Increasing reductions according to conditions of friction in  
the process of rolling on cogging mills] Uvelichenie obzhatii  
po usloviyam treniia pri prokatke na obzhimnykh stanskakh.  
Khar'kov, Gos.nauchno-tekhn.isd-vo lit-ry po chernoi i tsvetnoi  
metallurgii, 1960. 100 p. (MIRA 14:1)

(Rolling (Metalwork))

(Friction)



UVELICHENIYE OBZHATIIY PO USLOVIYAM TRENIYA PRI PROKATKE NA OBZHMNYYKH STANAKH

SCV/5189

Gorenshteyn, Mikhail Moiseyevich

Uvelicheniye obzhatiiy po usloviyam treniya pri prokatke na obzhimnykh stanakh  
(Draft Increases Depending on Friction Conditions in Rolling on Roughing  
Mills ) Khar'kov, Metallurgizdat, 1960. 100 p. Errata slip inserted.  
4,150 copies printed

Resp. Ed.: N.M. Vorontsov; Ed. of Publishing House: R.A. Belina; Tech. Ed.:  
S.P. Andreyev.

PURPOSE: This book is intended for technical and scientific personnel, and may  
also be useful to students at metallurgical schools of higher education.

COVERAGE: The author presents the results of experimental investigations of the  
basic factors affecting friction, and determines the values and ratios of fric-  
tion coefficients at the bite, during the steady rolling process, and at the  
neutral point. The text includes results of thorough investigations of draft  
increases made at the expense of the complete utilization of friction, strength  
of metal, and available power in rolling on various mills. The experimental

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Draft Increases Depending on Friction (Cont.)

SOV/5189

work for Chapter IV was carried out at a type 1170 blooming mill at the "Azovstal'" plant by the personnel of the Zhdanovskiy metallurgicheskii institut (Zhdanov Metallurgical Institute) and the "Azovstal'" plant with the active participation of the following engineers: V.K. Tkachenko, A.P. Goltvenko, Z.A. Yashchenko, and V.P. Pogorzhe'skiy. Dynamic loadings of the blooming mill were investigated with the collaboration of B.S. Kirillov, Candidate of Technical Sciences. The experimental work was conducted under the supervision of the author. The investigation described in Chapter V was completed in 1957 at the "Azovstal'" plant. The following engineers participated in this investigation under the author's supervision: M.M. Mezhaurov and V.K. Tkachenko from the Zhdanov Metallurgical Institute, and K. Gudovshchikov and A. Manto from the "Azovstal'" plant. There are 51 references, all Soviet.

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Foreword

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Card ~~2/4~~

S/137/60/000/009/005/029  
A006/A001

Translation from: Referativnyy zhurnal, Metallurgiya, 1960, No. 9, p. 109  
# 20243

AUTHORS: Kirillov, B.S., Gorenshteyn, M.M., Goltvenko, A.I., Tkachenko, V.K.

TITLE: Calculation of the Multi-Purpose Spindle of a Rolling Mill

PERIODICAL: Sb. nauchn. tr. Zhdanovsk. metallurg. inst., 1960, No. 5, pp. 372-381

TEXT: A comparison is made of the existing methods for calculating multi-purpose spindles of a rolling mill. The magnitudes of error when using one or the other method were revealed. As a result of the study it was established that the discrepancy between the theoretical calculations of a spindle fork and experimental data is explained by the inaccurate accounting for the twisting stress. A.I. Tselikov recommends to use the method of the strength of materials applied to the given case when calculating bore rolls. When calculating the blades of a roll, new coefficients are introduced which can be used as a basis of approximate calculations.

K.U.

Translator's note: This is the full translation of the original Russian abstract.  
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S/133/61/000/004/007/015  
AO 54/A127

1.13.0 1496, 1413, 1454

AUTHORS: Gorenshteyn, M. M., Docent, Candidate of Technical Sciences,  
and Pogorzhel'skiy, V. I., Engineer

TITLE: Rolling with increased reduction

PERIODICAL: Stal', no. 4, 1961, 343 - 344

TEXT: As previously outlined by various authors such as A. I. Murzov (Ref. 1: Stal', 1960, no. 9) and V. P. Kozhevnikov and M. M. Shternov (Ref. 2: Stal', 1960, no. 9) the main reason why rolling with increased reduction has not yet been introduced on a larger scale lies in the considerable difference between laboratory tests and operations on an industrial scale. For instance, in the rolling mill the initial moment of the bite is promoted by the impact of the heavy rolling material due to the acceleration imparted by the rolling table, the conicity of the ingot end, the roughness of the roll-surface, the adhesion of the metal to the roll, etc. The rate of reduction also effects the slip that takes place in the middle of the ingot length, which is in close relation with frictional forces. These, however, depend largely on the rotation-speed of rolls, metal temperature,

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S/133/61/000/004/007/015  
A054/A127

Rolling with increased reduction

cinder formation on the metal, roughness of rolls. All these factors can only be observed during actual operation and not in the laboratory. The increase in reduction can only be established when such factors as the stability of the working parts of the mill, the maximum and root mean square load of the main motor, and the heating of the transformer unit are taken into consideration. When all these factors permit an increase of reduction and only the limit angle of bite is too small, on account of friction, the angle can be increased by indenting the surface. In the "Azovstal'" plant tests were carried out on the 1700 mm blooming mill and it was found that in rolling 67.3 (St.3) 730 x 670 mm ingots into 270 x 280 blooms with 11 passes the most suitable reduction amounts to 110 - 100 mm in the first roll pass design (width: 435 mm) while in the narrower second and third roll pass designs it can be increased to 140 - 160 mm per pass. In the most heavily loaded lower spindle a torque of 160 TM developed, while stress in the ball and socket joint of the spindle increased to 1,600 kg/sq cm. In order to prevent fracture of the spindle, its head was reinforced as far as this was possible on account of the roll-center distances. This example shows to what extent the reduction rate depends on the strength of the machine parts.

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Rolling with increased reduction...

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S/133/61/000/004/007/015  
A054/A127

In "Azovstal'" the main motor (7,000 hp) was replaced by a 10,000 hp motor and several other factories rolling with 11 passes, did the same. The nominal speed of this motor is 65 rpm. It was also advisable to increase the rolling diameters of the rolls, especially that of the roll barrel, thus bringing the torque obtained in accordance with the permissible. The increased production in "Azovstal'" was to a large extent a result of indenting the roll surface. Since 1958, the 55X (55Kh) steel rolls in this factory have been indented to a depth of 2 mm. Consequently it is possible to operate with reductions of 85 - 90 mm on an average, with increased rate of bite (max. 40 rpm), without any manifestation of slip. As a result of the serrated surface of the blooms, produced on indented rolls, a higher friction force arises, when rolling on 800 and 900 mm rail rolling and roughing mills. Indentations up to 2 mm do not reduce the quality of the finished product made of St.3 and rail steel. When operating with indented rolls and 11 passes the output will be 6 - 8% higher than for 13 passes. However, when using rolls with a smooth surface, even when rolling with 13 passes, slips could not be eliminated. Therefore, when operating with increased reduction, indented rolls should be applied. There are 2 Soviet-bloc references.

Card 3/3

GORENSHTEYN, M.M., kand.tekhn.nauk; TSILEVICH, I.Z., inzh.

Conditions for the rolling of heavy rails. Stal' 22 no.7:624-627  
Jl '62. (MIRA 15:7)

1. Zhdanovskiy metallurgicheskiy institut i zavod "Azovstal'".  
(Rolling (Metalwork)) (Railroads--Rails)

GORENSHTEYN, M.M., kand.tekhn.nauk

Theory of rolling with "superreductions." Stal' 23 no.12:1102-1105  
D '63. (MIRA 17:2)

1. Zhdanovskiy metallurgicheskiy institut.



GORENSHTEYN, Mikhail Moiseyevich, kand. tekhn. nauk, dots.;  
TSILEVICH, Il'ya Zalmovich, inzh.; MEZHAUROV, Marat  
Mikhaylovich, inzh.; CHECHNEV, A.A., inzh., retsenzent

[Lightweight rolled sections] Oblegchenyye profili pro-  
kata. Kiev, Gostekhzdat, USSR, 1963. 137 p.  
(MIRA 18:6)

SHIRYAYEV, V.I.; GORENSHTEYN, M.M.

Rigidity of rail and structural steel rolling mill stands during  
the rolling of lightweight shapes. Izv. vys. ucheb. zav.; chern.  
met. 7 no.1:107-112 '64. (MIRA 17:2)

1. Zhdanovskiy metallurgicheskiy institut.

GORENSHTEYN, M.M., docent, kand. tekhn. nauk; TROITSKY, A.V., kand.  
tekhn. nauk; GILBERG, B.A., inzh.; KUDACHIN, A.I., inzh.

Temperature conditions of the service of rolls on three-high  
sheet rolling mills. Stal' 25 no.8:841-842 S 165. (MMA 18:9)

1. Zhukovskiy metallurgicheskiy institut (for Gorenshteyn).

SHTEYNVORTSEL', A.M. (g. Chelyabinsk); BELOUSOV, L.V. (g. Chelyabinsk);  
GORENSHTEYN, S.S. (g. Chelyabinsk)

Economic accountability in building administrations. Stroi.  
truboprov. 6 no.6:27-28 Je '61. (MIRA 14:7)  
(Construction industry--Accounting)

*Gorenshteyn, V.O.*

FRACASTORO, Girolamo; BYKOV, K.M., akademik, redaktor; MIRSK, V.F., redaktor; ALEKSEYBYA, T.V., tekhnicheskiy redaktor; GORENSHTEYN, V.O.  
[translator] SADOV, A.A. [translator], [deceased].

[On contagion, contagious diseases and their cure; in three volumes.  
Translated from the Latin by V.O.Gorenshtein and A.A.Sadov] O kontagii  
kontagionnykh bolezniakh i lechenii; v trekh knigakh. Pod red. K.M.  
Bykova. Perevod s latinskogo V.O.Gorenshteina i A.A.Sadova. Moskva,  
Izd-vo Akademii nauk SSSR, 1954. 323 p. (MLRA 7:9)  
(Communicable diseases)

GORENSHTEYN, V.V., kand. tekhn. nauk

Stability of three-hinged arch frames. Prom. stroi. 37 no.1:51-53  
Ja '59. (MIRA 12:1)

(Structural frames)

26154

S/044/61/000/005/017/025

0111/C444

6.7200

AUTHORS: Gorentsvit, G. E., Ponyrko, S. A.

TITLE: Oscilloscopic method for the determination of the correlation function of a stationary random process

PERIODICAL: Referativnyy zhurnal, Matematika, no. 5, 1961, 21, abstract 5V145. (Izv. Leningr. elektrotekhn. in-ta, 1959, 39, 307 - 312)

TEXT: A simple method is proposed for the experimental determination of the correlation function of the stationary Gauß process  $x(t)$ . An electric potential, proportional to  $x(t)$ , is added to the vertical deflecting plates, and another one, proportional to  $x(t - \tau)$ , is added to the horizontal plates. As a result of the averaging effect of the eye, a figure with a clear contour is obtained on the screen - this is the ellipse of the same probability. By measuring the proportion of the axes of the ellipse for various  $\tau$ , and using the relation

$$\rho(\tau) = (1 - (a/b)^2) / (1 + (a/b)^2),$$

where  $a$  and  $b$  are the two axes, one obtains values of the correlation

Card 1/2

Oscilloscopic method...

26154

S/044/61/000/005/017/025  
C111/C444

function  $\varphi(\tau)$ . The general exactness of the described method is about 15% for the investigation of processes, only slightly different from Gauss processes. As an example for the application of this method, the experimentally obtained curve of the correlation function of a concrete random process is given.

(Abstracter's note: Complete translation.)

Card 2/2



20977

S/058/61/000/004/030/042

AC01/A101

6.9200

AUTHORS: Gorentsvit, G.E., Ponyrko, S.A.

TITLE: The oscillographic method of determining the correlation function of a random stationary process

PERIODICAL: Referativnyy zhurnal. Fizika, no 4, 1961, 374, abstract 4Zh297 ("Izv. Leningr. elektrotekhn. in-ta", 1959, v 39. 307-312)

TEXT: The authors propose an experimental method of determining correlation functions of random stationary processes, using a simple apparatus. The method is based on concepts in studies of random quantities distribution, extended to random processes with continuous time. The random process being studied is represented by a variable electric voltage whose values (separated by time intervals  $\tau$ ) are supplied respectively to the vertical and horizontal plates of an electronic oscilloscope. The calculational method, presented in the article, enables one to determine the value of correlation function from the shape of the curves on the oscilloscope screen. According to estimates cited, the error in using the described method amounts to  $\sim 15\%$ . ✓

[Abstracter's note: Complete translation.]

Yu. Gulyayev

Card 1/1

GORGANYI, G.

Tamas Kolozsvari Jordan 1st Hungarian physician-balneologist.  
Orv. hetil. 105 no.24:1135-1138 14 Je'64

GORENYI, Emil, okleveles gépészmérnök; MAROSI, László; BENES, Zoltán, okleveles gépészmérnök; ALMADI, József; TAKS, Vendel; ECKOZE, László; PCRA, Ferenc; KOVACS, Lajos; PONGRAC, Vladimir; BOGOS, János.

Results obtained in developing gas appliances used in the heavy industry. Energia és atom 18 no.1,55-60. Jan. 65.

1. Combustion Engineering Research Institute of the Ministry of Metallurgy and Machine Industry (for Gorgenyi). 2. National Petroleum and Gas Industry Trust, Budapest (for Benes). 3. Ministry of Heavy Industry, Budapest (for Kovacs).

GOREPKIN, A.D.

Ore storage systems in complex ore mines. Gor. zhur. no.2:12-14  
P '57. (MLRA 10:4)

1. Zamestitel' glavnogo inzhener Zgidского rudnika.  
(Mining engineering)

GORHPEKIN, A.D., gornyy inzh.

Caving mine pillars into unfilled chambers. Gor. zhur. no.2:68-69  
F '58. (MIRA 11:3)

1. Zgidskiy rudnik.

(Mining engineering)

GOREPEKIN, A.D.; KHABASAKHALOV, V.I.

Clearing away sand plugs using aerated fluid with a surfactant  
additive; Nefteprom. delg. no.4:13-17 '64.

(MIRA 17:6)

1. Neftepromyslovoye upravleniye "Starogrozneft".

NIKONOVA, T.N.; GOL'DIN, N.M.; GORKER, B.A.

How long should children be confined to bed during an acute period of rheumatism. *Pediatrics* 39 no.3:90 My-Je '56. (MLRA 9:9)

1. Iz kazakhskogo nauchno-issledovatel'skogo instituta okhrany materinstva i detstva.  
(RHEUMATIC FEVER)

GOREPEKIN, N., slesar'-montazhnik

Automatization in mines. Mast. ugl. 8 no.11:21 N '59.  
(MIRA 13:2)

1.Shakhta No.1 "Kapital'naya" kombinata Vorkutugol'.  
(Pechora Basin--Coal mines and mining)  
(Automatic control)



NOVIK, Ye.N., prof.; GORER, N.V.

Portable amplifier of bioelectric potentials and its diagnostic value  
in otiatric practice. Zhur. ush. nos. i gorl. bol. 21 no.4:25-27  
Jl-Ag '61. (MIRA 15:1)

1. Iz Otorinolaringologicheskogo otdeleniya Stanislavskoy oblastnoy  
klinicheskoy bol'nitsy.  
(MEDICAL INSTRUMENTS AND APPARATUS) (EAR DISEASES)

HERISAN, S., Dr.; GORESCU, I., dr.; MARIN-MOSCOVICI, I., dr.

Notes on a case of acute myeloleukosis treated with cortisone.  
Med. int., Bucur. 3 no.7:1078-1083 Nov 56.

1. Lucrare efectuata in Serviciul de boli interne al Spitalului  
M.A.I. "Victor Babes."

(LEUKEMIA, MYELOCYTIC, ther.

cortisone, case report)

(CORTISONE, ther. use

leukemia, myelocytic)

HERISAN, S.; GORESCU, I.; KLEIN, S.; PANAIT, G.

An atypical case of Gaucher's disease. Rumanian M. Rev. 2 no.2:33-37  
Apr-June 58.

(LIPOIDOSIS, case reports  
atypical Gaucher's dis.)

NICOLAU, C.T., prof.; GORESCU, I., dr.; colaboratori tehnici GEORGIU, T.; SERBAN, C.

Experimental investigations of the etiology of leukoses. I. Induction of leukosis in H mice with acellular filtrates of Ehrlich's ascites carcinoma and transplantable L 10 sarcoma. Med. intern. 3:269-274 Mr '62.

(LEUKEMIA virology)

(NEOPLASMS experimental)

NICOLAU, C.T.; GORESCU, I., dr.; colaboratori tehnici: GEORGIU, T.;  
SERBAN, G.

Experimental investigations of the etiology of leukoses. II. Induction  
of leukoses in H mice by injections of acellular extracts of bone marrow  
from acute human leukoses. Med. intern. 3:275-280 Mr '62.  
(LEUKEMIA virology) (BONE MARROW extracts)

PROKOPENKO, A.G., inzh.; GORESHNIK, A.D., inzh.; PALIYCHUK, A.S., inzh.;  
RUVIMSKIY, I.M., inzh.; SHALAGIN, A.D., inzh.; SHCHERBINA, A.V.,  
inzh.; YAKOVLEV, V.N., inzh.

Starting up turbine-boiler units after a holiday shutdown of  
24 hours. Teploenergetika 7 no.3:60-72 Mr '60. (MIRA 13:5)

1. Yuzhnoye otdeleniye Gosudarstvennogo tresta po organizatsii  
i ratsionalizatsii elektrostantsiy, Yuzhno-Ural'skaya  
gosudarstvennaya rayonnaya elektricheskaya stantsiya, Odesskaya  
teploelektrotsentral' i Stupinskaya teploelektrotsentral'.  
(Boilers) (Steam turbines)

PROKOPENKO, A.G., inzh.; GORESHNIK, A.D., inzh.; TKACHUK, N.V., inzh.;  
BRAGINSKIY, V.A., inzh.; GALATSAN, V.N., inzh.; MAKHLIN, V.A., inzh.

Analysis of the start operation of warm 150 Mw. single-block  
units. Teploenergetika 10 no.8:2-10 Ag '63. (MIRA 16:8)

1. Yuzhnoye otdeleniye Gosudarstvennogo tresta po organizatsii  
i ratsionalizatsii rayonnykh elektrostantsiy i setey, Khar'kovskiy  
turbogeneratorny zavod i Gosudarstvennoye upravleniye  
energeticheskogo khozyaystva Dnepropetrovskoy oblasti.  
(Boilers) (Steam turbines)

GORESHNIK, A.D., inzh.

Design of intermediate steam superheating pipelines. Elek. sta. 34 no.11:  
39-41 N '63. (MIRA 17:2)



CZECHOSLOVAKIA/Microbiology - Microbes Pathogenic for Man and  
Animals. Bacteria. Mycobacteria.

F

Abs Jour : Ref Zhur Biol., No 22, 1958, 99467

Author : Frants, Z., Gais, I.M., Goreshevskiy, O.

Inst : -

Title : The Anti-Tuberculous Milk Factor.

Orig Pub : Chemotherapeutika. I. Farmac. sympos., Praha, 1956,  
103-104

Abstract : Milk serum (whey) and its dialysate inhibit the growth  
of tubercle bacilli on Kirchner's medium. The active  
substance is adsorbed on activated carbon, is eluted  
with acetic acid, and contains a lipophilic and hydro-  
philic fraction. -- L.M. Model'

Card 1/1

SAFRAZHEMYAN, G. S., ENG.; BABULEVICH, V. M., ENG.;  
TSHERAVA, G. K., ENG.; SOLODYUK, V. A., ENG.;  
GOROSHTEIN, M. D., ENG.; CHERNYSHEVICH, V. I., ENG.;  
KOROZOV, N. YE., ENG.; VELICHONOV, F. I., ENG.; REVA, S. L., ENG.

ELECTRIC CUTOUTS

Periodicity of repairing cutouts. Elek. sta. 23, no. 8, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November 1952 ~~1953~~, Uncl.

GORELSKY, O. P.

Expulsion of hazardous combustible gases from a gas holder by displacement with water. L. I. Matyushin, O. P. Goreslyskii, and A. Ya. Korshak. *Med. Zhurn. Prom.* 19, No. 2, 38-9 (1954). To prevent explosion of the residual combustible gases, a gas-holder explosion following complete filling of tank with water is recommended. Vladimir M. Krickovskiy

GOETSLAVSKIY, O.P.; VASILENKO, N.Ye.

Prospects for development of the Yevdakovo Oil and Fat Combine.  
Masl.-zhir.prom. 25 no.1:8 '59. (MIRA 12:1)  
(Yevdakovo--Oil industries)

AKHAMEDKO, K.I., inzh.; GORESLAVSKAYA, V.B., inzh., NADTOCHIYEV, I.I.

Production of powdered fats. Masl.-zhir.prom. 26 no.5:43-44 My  
'60. (MIRA 13:12)

1. Yevdakovskiy zhirovoy kombinat.  
(Kamenka (Voronezh Province)—Oils and fats)

POYCHENKO, V.M.; GORETSKAYA, I.N.

Measures for localizing the San Jose scale in the Crimea. Zashch.  
rast. ot vred. i bol. 7 no.9:48-49 S '62. (MIRA 16:8)

1. Nachal'nik Krymskoy oblastnoy karantinnoy inspektsii (for  
Poychenko).

(Crimea--San Jose scale--Extermination)

15-57-3-2926

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 3,  
p 69 (USSR)

AUTHOR: Goretskaya, Ye. N.

TITLE: Experiment on the Balance of Materials During the  
Process of Serpentinization (Opyt podscheta balans  
veshchestva pri protsesse serpentinizatsii)

PERIODICAL: Materialy Vses. n.-i. geol. in-ta, 1956, Nr 8, pp 118-  
125

ABSTRACT: An experiment on the balance of materials during ser-  
pentinization was made on gabbro-peridotitic formations  
of northern Fergana (the saxonites, dunites, serpenti-  
nites, and gabbros of the northern part of the western  
slope of the Fergana Range). It was ascertained that  
this process is divided into two stages: 1) the trans-  
formation of saxonites and dunites into bastite-serpo-  
phite-chrysotile, serpophite-chrysotile, and chrysotile  
serpentinities; and 2) the antigoritization of primary  
serpentinities. The calculation of the balance of mate-

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15-57-3-2926

Experiment on the Balance (Cont.)

rials for each stage was made on the basis of chemical analyses of the corresponding rocks and of the determination of specific gravities and bulk weights. It was shown that the first stage of serpentization is characterized by the removal of considerable quantities of  $\text{SiO}_2$  and  $\text{MgO}$ , and that there is only a partial compensation by the introduction of  $\text{Al}_2\text{O}_3$  and  $\text{H}_2\text{O}$ . The balance of material at this stage is negative and represents 13.27 percent of the mass of the primary bulk of the saxonite. The second stage of serpentization, antigoritization, occurs without essential change in the chemical composition of the rocks (removal of  $\text{MgO}$  and introduction of  $\text{Al}_2\text{O}_3$  and  $\text{H}_2\text{O}$ ) with the total balance of material amounting to 30.5 percent of the mass of the bastite-serpophite-chrysotile serpentinite. The decrease in mass of the rocks during serpentization takes place without change in the volume of the rocks. This is indicated by the blastoporphyrictic texture of the aposaxonitic serpentinite and the formation of silicified rocks in the exogene contact zone of the intrusions. This latter process points to the removal of  $\text{SiO}_2$  during serpentization of the saxonites. Tables are furnished to show the quantitative changes in the content of

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15-57-3-2926

Experiment on the Balance (Cont.)

principal chemical components during the transformation of 100 cm<sup>3</sup> of saxonite (specific gravity of 3.00, bulk weight of 2.94, porosity of 2 percent) into bastite-serpophite-chrysotile serpentinite (specific gravity of 2.61, bulk weight of 2.55, porosity of 2.3 percent) and into antigoritic serpentinite (specific gravity of 2.69, bulk weight of 2.62 to 2.66, porosity of 1.1 to 2.6 percent) (see Table). Diagrams are also included to show the balance of material.

Component	1	2	3	4	5	6
SiO <sub>2</sub>	40.94	36.68	36.57	36.89	38.78	38.31
TiO <sub>2</sub>	none	0.09	0.12	0.10	0.09	0.17
Al <sub>2</sub> O <sub>3</sub>	1.30	2.53	3.10	9.38	4.86	5.41
Cr <sub>2</sub> O <sub>3</sub>	0.25	0.29	0.24	0.15	0.07	0.19

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Experiment on the Balance (Cont.)

$\text{Fe}_2\text{O}_3$	1.27	5.38	5.98	7.71	8.88	6.20
$\text{FeO}$	7.03	0.61	1.07	1.48	0.23	2.44
$\text{MnO}$	0.08	0.16	0.08	0.00	0.00	0.18
$\text{MgO}$	41.77	39.96	37.19	32.12	35.60	34.10
$\text{CaO}$	0.65	0.38	0.00	0.00	0.00	0.00
$\text{Na}_2\text{O}$	0.36	0.00	0.00	0.00	0.00	0.00
$\text{K}_2\text{O}$						
$\text{CuO}$	--	--	0.03	--	--	--
$\text{NiO}$	--	0.36	0.43	--	--	0.29
$\text{P}_2\text{O}_5$	--	0.02	0.02	0.012	0.018	0.01

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15-57-3-2926

Experiment on the Balance (Cont.)

Cl	--	0.67	0.59	0.07	0.08	0.61
SO <sub>2</sub>	--	0.10	0.05	0.02	0.03	0.07
H <sub>2</sub> O of hydration 0.34	--	--	--	--	--	--
Others	6.50	12.42	15.06	12.04	11.41	11.61
Total	100.49	99.65	100.53	99.97	100.05	99.59
CO <sub>2</sub>	--	7.20	13.50	4.50	6.50	7.90

1) saxonite; 2) bastite-serpophite-chrysotile serpentinite; 3) "spotted" bastite-serpophite-chrysotile-antigorite serpentinite; 4) schistose antigorite serpentinite; 5) massive antigorite serpentinite; 6) schistose antigorite serpentinite.

O.V.B.

Card 5/5

GORETSKAYA, Ye. N.

Using graphic method for classifying igneous rocks according to  
A.N.Zavaritskii's parameters Q and a:c. Mat. VSEGEI no. 21:94-107  
'57. (MIRA 11:7)

(Rocks, Igneous--Classification) ,

*GORETSKAYA, Ye.N.*  
DVORTSOVA, K.I.; GORETSKAYA, Ye.N.

Method for making metallogenic maps. Mat. VSEGEI no.22:129-142  
'57. (MIRA 10:10)

(Ore deposits--Maps)

GORETSKAYA, Ye.N.

Igneous formations of the Tien-Shan. Zap. Vses. min.ob-va  
90 no.2:136-161 '61. (MIRA 14:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskii  
institut (VSEGEI), Leningrad.  
(Tien-Shan--Rocks, Igneous)

GORETSKAYA, Ye.N.; RYSIN, P.G.

Lower Carboniferous intrusive phase in the southern Gissar Range  
as revealed by plagioclase granites of the Khanaka Valley. Trudy  
AN Tadzh.SSR 104 no.1:27-39 '59. (MIRA 15:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskii institut.  
(Khanaka Valley--Monzonites)

GORETSKAYA, Ye.M.

Flysch Carboniferous formation in the southern slope of the  
Gissar Range. Trudy Inst.geol. AN Tadzh. SSR 4:65-98 '61.  
(MIRA 15:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskii institut.  
(Gissar Range—Flysch)



GORETSKAYA, Ye.N.; MORCZENKO, N.K.

Igneous activity and metallogeny in the Paleozoic history  
of the geological development of the southern Gissar Range  
(southern Tien Shan). Trudy VSEGEI 73:29-48 '62. (MIRA 15:9)  
(Gissar Range--Geology, Structural)

SPIZHARSKY, T.N.; GRAMOV, Y.Ya.; Izmiranov, L.I.;  
BORG, B.I.; GUREVICH, V.M.; GUREVICH, L.I.; SALOP, L.I.; SHTAL',  
N.Y.

Paleotectonic maps and the method for plotting them. Metod.  
paleogeog. i. i. 1977. 2-147. (MIRA 18:6)

ACC NR: AT6025569 (A, N) SOURCE CODE: UR/2599/66/000/060/0054/0061

AUTHOR: Drozd, N. I.; Goretskaya, Z. A.

ORG: None

TITLE: Map of average turbidity of the river waters in the UkrSSR

SOURCE: Kiyev. Ukrainskiy nauchno-issledovatel'skiy gidrometeorologicheskii institut. Trudy, no. 60, 1966. Voprosy gidrologicheskikh issledovaniy i raschetov (Problems in hydrological research and calculations), 54-61

TOPIC TAGS: hydrology, ~~river water turbidity, river water turbidity map, sediment~~

ABSTRACT: The paper presents and discusses a map of river water turbidity of the Ukraine. The map shows average concentrations of suspended sediments of rivers with watersheds over 200 km<sup>2</sup>. The map is shown in Fig. 1. The least turbidity, 0 - 20 grams/m<sup>3</sup>, is found in the northern flat forest zones of the republic, the highest (>500 g/m<sup>3</sup>) - in the open regions of the center, at the southern slope of the Ukrainian crystalline shield. A review of the map and of the relations between relief structure, ground nature, erosion mechanisms and the river water turbidity is given. A map showing terrain roughness, characterized by the index of gullies length/area (km/km<sup>2</sup>) is also presented. Gullies in the Kanev dislocation region (SE of Kiyev) attain depths of 80 - 100 meters with a gully density index of 5 - 7 km/km<sup>2</sup>.

Card 1/2

ACC NR: AT6025569



Fig. 1. Map of average turbidity of the river waters of the UkSSR. Suspended sediment magnitudes indicated by numbers, in grams/meter<sup>3</sup>

SUB CODE: 08/ SUBM DATE: 00 ORIG REF: 005

Card 2/2

GORETSKAYA, Z. O.

Deep-cut broaching of holes. Avt. i trakt. no. 6:22-30 Je '57.  
(MIRA 10:8)

1. Nauchno-issledovatel'skiy institut transporta.  
(Broaching machines)

GORETSKAYA, Z.D.; BARANOVSKIY, Yu.V.; BERLINER, M.S.; BRAKHMAN, L.A.;  
KUZNETSOVA, N.I.; MALYAROV, L.N.; CHUYAN, K.I.; DOBRUSINA, Ye.M.;  
LEONT'YEV, I.B.; MARTYNOV, B.P.; ROSLYAKOVA, S.V.; RUGAYEVA,  
V.A.. Prinimal uchastiye DMITRIYEV, I.P.. STRUZHESTRAKH, Ye.I.,  
inzh., red.; KL'KIND, V.D., tekhn.red.

[General engineering norms for cutting operations and time for  
broaching] Obshchemashinostroitel'nye normativy rezhimov rezaniia  
i vremeni na protiazhnye raboty. Moskva, Gos.nauchno-tekhn.izd-vo  
mashinostroit.lit-ry, 1959. 73 p. (MIRA 12:12)

1. Moscow. Nauchno-issledovatel'skiy institut truda. TSentral'noye  
byuro promyshlennyykh normativov po trudu. 2. Rabotniki Nauchno-  
issledovatel'skogo instituta tekhnologii avtomobil'noy promyshlennosti  
(NIITavtoprom) (for all, except Struzhestrakh, Kl'kind).  
(Broaching machines)

PHASE I BOOK EXPLOITATION

SON/4673

Goretskaya, Zinaida Dmitriyevna

Protyagivaniye s bol'shimi podachami (Broaching With Large Step Per Tooth) Moscow, Mashgiz, 1960. 203 p. Errata slip inserted. 5,500 copies printed.

Reviewer: M.N. Larin, Doctor of Technical Sciences; Ed.: E.I. Fel'dshteyn, Doctor of Technical Sciences; Managing Ed. for Literature on Machine Building and Instrument Construction (Mashgiz): V.I. Mitin, Engineer; Tech. Ed.: Z.I. Chernova.

PURPOSE: This book is intended for technical personnel at machine-building plants and instrument shops.

COVERAGE: The author gives data on the process of broaching with large step per tooth and examines the special features and high efficiency of this process in comparison with regular broaching processes. Recommendations are made for selecting an efficient broach design on the basis of the type and size of surface to be machined. The designing and construction of various types of broaches are discussed, and special attention is given to their manufacture, regrinding, and use. G.I. Granovskiy, Professor, Doctor of Technical Sciences, and A.V. Shchegolev, Professor, Doctor of Technical Sciences, are both credited with

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Broaching With Large Step Per Tooth

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having made basic and very important contributions to this field. According to the author, much work has been conducted in this type of broaching at the Stalingrad and Chelyabinsk Tractor Plants, and at the Gor'kiy Automobile Plant and the Moscow Automobile Plant im. Likhachev. The Nauchno-issledovatel'skiy institut tekhnologii avtomobil'noy promyshlennosti ( NIITAvtoprom ) (Scientific Research Institute of Automotive Engineering) has cooperated closely with automobile plants in studying broaching processes. There are 30 references, all Soviet.

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(Western Manych Valley--Paleogeography) (Paleogeography--  
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SOV-5-18-2-5/43

AUTHOR: Goretakiy, G.I.

TITLE: Burtass Mean-Anthropogenic Lake and the Problem of Level  
Fluctuations of the World Ocean in Connection with Glaciation  
(Burtasskoye sredneantropogennoye ozero i problema kolebaniya  
urovnya mirovogo okeana v svyazi s oledeneniyami)

PERIODICAL: Byulleten' Moskovskogo obshchestva issledovaniy prirody -  
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ABSTRACT: The author gives a short characteristic of the Burtass mean-  
anthropogenic freshwater lake, its sediments, its flora and  
fauna and its palaeography. Mentioned is the great intensity  
of the flow of thaw waters through the Burtass Lake with a  
drop of 2 centimeters per km and on the insignificance of  
glacial eustatic level fluctuations of the world ocean (about  
15-20 m). In this connection, several scientists are men-  
tioned as having done research work in this field: S.A.  
Yakovlev, K.K. Markov, G.I. Popov, K.M. Negadayev-Nikonov,  
V.A. Ivanova, A.I. Zhivotovskaya, M.A. Sedova, N.D. Radzevich,

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Burtass Mean-Anthropogenic Lake and the Problem of Level Fluctuations of  
the World Ocean in Connection with Glaciation

V.P. Grichuk, I.M. Pokrovskaya, P.A. Nikitin, P.I. Dorofeyeva.  
There are 3 charts, 3 photographs, 2 tables and 11 Soviet  
references.

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2. Paleogeology--USSR
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